

VIRGINIA

# VETERAN CYBER TRAINING PILOT

**ONWARD**  
TO  
**OPPORTUNITY**  
IN PARTNERSHIP WITH  
**VCTP** VETERANS CAREER  
TRANSITION PROGRAM

ORIENTATION | JUNE 26, 2017



**CYBERSECURITY OPERATIONS**  
**SECURITY INFRASTRUCTURE**  
**SOFTWARE ENGINEERING**  
**OPERATIONS/TECHNICAL SUPPORT**  
**SECURITY MANAGEMENT**  
**NETWORK SECURITY**



**17,000 OPEN**  
CYBER JOBS IN VIRGINIA

## FOR MORE INFORMATION



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The O2O program leverages the DoD SkillBridge authority to conduct career skills training on US Military installations.

Gain the skills to fill one of the **17,000 OPEN cyber jobs in Virginia!** If you have the aptitude and passion for a career in cyber, want to live and work in Virginia, and are one of the following, you may qualify for **FREE** training:

- Transitioning service members
- National Guard
- Reservist
- Military spouse
- Veteran

**Cisco, AWS, (ISC)<sup>2</sup>, Palo Alto Networks and Fortinet** have partnered together with the **Commonwealth of Virginia** to offer six cyber training tracks; **(1)** Cybersecurity Operations, **(2)** Security Infrastructure, **(3)** Software Engineering, **(4)** Operations/Technical Support and **(5)** Security Management, **(6)** Network Security.

Two training partners, **Onward to Opportunity (O2O)** at the Naval Station Norfolk and Yyotta at the Quantico Corporate Center will deliver the training in 12-15 week mixed online and classroom sessions. Training is scheduled to start this **spring 2017** and over the next 12 months the goal is to train approximately 200 veterans.

**Virginia Values Veterans (V3)** will provide engagement opportunities with Virginia employers.

As a prerequisite to this program, **registrants are required** to sign up for the **FREE 15-hour**, online, self-paced "Introduction to Cybersecurity" course by registering at [www.netacad.com/web/us/military](http://www.netacad.com/web/us/military).

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VETERANS AND  
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**SCHULTZ**  
FAMILY  
FOUNDATION

**HH**  
HIRE HEROES

**BLUE STAR**  
FAMILIES

TRACK	OFFER	COURSE DESCRIPTION	CYBER JOB ROLES COURSE MATERIAL ALIGNMENT	EXPERIENCE/ SKILLS REQUIREMENTS FOR OFFERING TRACK	ADDITIONAL INFORMATION
Cybersecurity Operations	Cisco Certified Network Associate (CCNA) Cyber Operations	Today's organizations are challenged with rapidly detecting cybersecurity breaches and effectively responding to security incidents. Teams of people in Security Operations Centers (SOCs) keep a vigilant eye on security systems, protecting their organizations by detecting and responding to cybersecurity threats. CCNA Cyber Ops prepares candidates to begin a career working with associate-level cybersecurity analysts within SOCs.  <a href="https://learningnetwork.cisco.com/community/certifications/ccna-cyber-ops">https://learningnetwork.cisco.com/community/certifications/ccna-cyber-ops</a>	Security Analyst, Network Auditor, Digital Forensic, Investigator, SOC Team Member	Basic Linux or Windows Admin, basic networking. Preferred 1-3 years military experience in IT.	Overview of all Cisco security training - <a href="http://www.cisco.com/go/securitytraining">www.cisco.com/go/securitytraining</a> Overview of non-software career opportunities tracks - <a href="https://learningnetwork.cisco.com/blogs/talking-tech-with-cisco/2016/10/25/managers-is-your-security-team-complete-part-2">https://learningnetwork.cisco.com/blogs/talking-tech-with-cisco/2016/10/25/managers-is-your-security-team-complete-part-2</a>  As someone advances, can move into roles such as these - <a href="http://www.cisco.com/c/m/en_us/products/security/the-good-fight/index.html">http://www.cisco.com/c/m/en_us/products/security/the-good-fight/index.html</a>  Certification alignment: 210-250 SECND and 210-255 SECOPS - one certification voucher (covering 100% of exam cost) per exam provided to successful completors
Secure Infrastructure	Cisco Certified Network Associate (CCNA) Security	"The CCNA Security program is a three-year certification program intended to provide baseline security knowledge and skills for network professionals interested in network security. Skills taught and validated include testing, deploying, configuring, maintaining, and troubleshooting Cisco network security solutions that establish the security posture of the network.  Student will first take the training for ICND1, covering basic networking. Once they pass the associated Cisco CCENT certification, they will take the CCNA Security training.  <a href="https://learningnetwork.cisco.com/community/certifications/security_ccna">https://learningnetwork.cisco.com/community/certifications/security_ccna</a>	CCNA: Administrator, Technician  Track: Administrator, Technician, Engineer, Architect	Basic Linux or Windows Admin, basic networking. Preferred 1-3 years military experience in IT.	Overview of all Cisco security training - <a href="http://www.cisco.com/go/securitytraining">www.cisco.com/go/securitytraining</a>  Overview of non-software career opportunities tracks - <a href="https://learningnetwork.cisco.com/blogs/talking-tech-with-cisco/2016/10/25/managers-is-your-security-team-complete-part-2">https://learningnetwork.cisco.com/blogs/talking-tech-with-cisco/2016/10/25/managers-is-your-security-team-complete-part-2</a>  As someone advances, can move into roles such as these - <a href="http://www.cisco.com/c/m/en_us/products/security/the-good-fight/index.html">http://www.cisco.com/c/m/en_us/products/security/the-good-fight/index.html</a>  Certification alignment: 100-105 ICND1 and 210-260 IINS - one certification voucher (covering 100% of exam cost) per exam provided to successful completors
Software Engineering	AWS Educate Cloud Support Engineer Pathway	In this learning pathway students will hear directly from professionals in this field, complete labs and review references materials to learn more about the work and responsibilities of a Cloud Support Engineer in a cloud environment.  As you move through this learning pathway, you'll be introduced to cutting edge cloud services, knowledge and activities Cloud Support Engineers do every day.  You will have access to AWS services and many interesting resources to help you learn more about the work of a Cloud Support Engineer. Resources include: Video Presentations by AWS experts, Lab exercises, Demos and exercises, Online Courses, and Reference materials	Security Operations Analyst, Network Defense Analyst, Information Security System Engineer, Cyber Security Engineer	None, there are no experience and/or skill requirements.	To register for AWS Educate and learn more about the program, visit <a href="https://www.awseducate.com/veterans">https://www.awseducate.com/veterans</a>  AWS Educate provides veterans with access to resources to help them pursue high-demand jobs in the cloud computing field. Benefits include content, labs, pathways, and access to a cloud computing job board. As an additional benefit to AWS Educate, veterans may also qualify for AWS Certification Exam reimbursement. For more information on this benefit, please visit: <a href="https://aws.amazon.com/certification/veterans-reimbursement/">https://aws.amazon.com/certification/veterans-reimbursement/</a>
Software Engineering	AWS Educate Software Engineer Pathway	Hear directly from professionals in this field, complete labs and review references materials to learn more about the work and responsibilities of a Software Engineer in a cloud environment.  As you move through this learning pathway, you'll be introduced to cutting edge cloud services, knowledge and activities Software Engineers do every day.  By the end of this content module you will be able to set up an infrastructure to support various application and solution deployments in a flexible, scalable, and cost-effective manner on the AWS cloud.	Security Software Engineer, Information Security System Engineer, Application Security Programmer	None, there are no experience and/or skill requirements.	
Software Engineering	AWS Educate DevOps Engineer Pathway	In this learning pathway students will hear directly from professionals in this field, complete labs and review references materials to learn more about the work and responsibilities of a DevOps Engineer in a cloud environment.  In this content module you will examine various AWS services and tools to help you build, test, and deploy your application to AWS or your on-premises environment.  As you move through this learning pathway, you'll be introduced to cutting edge cloud services, knowledge and activities DevOps Engineers do every day.	DevOps Analyst, Counterintelligence Analyst, Cyber Security Software Engineer, Test & Evaluation Analyst	None, there are no experience and/or skill requirements.	

TRACK	OFFER	COURSE DESCRIPTION	CYBER JOB ROLES COURSE MATERIAL ALIGNMENT	EXPERIENCE/ SKILLS REQUIREMENTS FOR OFFERING TRACK	ADDITIONAL INFORMATION
Operations / Technical Support	AWS Educate Cloud Support Associate Pathway	Hear directly from professionals in this field, complete labs and review references materials to learn more about the work and responsibilities of a Cloud Support Associate in a cloud environment.  As you move through this learning pathway, you'll be introduced to cutting edge cloud services, knowledge and activities Cloud Support Associates do every day.  You will complete knowledge checks, lab exercises and projects to practice and test what you know.  You will have access to AWS services and many interesting resources to help you learn more about the work of a Cloud Support Associate.	Security Analyst, Support Analyst, Security Specialist, Network Defense Analyst	None, there are no experience and/or skill requirements.	To register for AWS Educate and learn more about the program, visit <a href="https://www.awseducate.com/veterans">https://www.awseducate.com/veterans</a>  AWS Educate provides veterans with access to resources to help them pursue high-demand jobs in the cloud computing field. Benefits include content, labs, pathways, and access to a cloud computing job board. As an additional benefit to AWS Educate, veterans may also qualify for AWS Certification Exam reimbursement. For more information on this benefit, please visit: <a href="https://aws.amazon.com/certification/veterans-reimbursement/">https://aws.amazon.com/certification/veterans-reimbursement/</a>
Operations / Technical Support	AWS Educate Quality Assurance Team Lead	Hear directly from professionals in this field, complete labs and review references materials to learn more about the work and responsibilities of a Software Quality Assurance Engineer in a cloud environment.  As you move through this learning pathway, you'll be introduced to cutting edge cloud services, knowledge and activities Software Quality Assurance Engineers do every day.  By the end of this content module you will examine how AWS services can be used to create highly available, scalable Web applications.	Assurance Technician, Threat and Incident Response Engineer, Cyber Vulnerability Analyst, Test & Evaluation Analyst	None, there are no experience and/or skill requirements.	
Security Management	Certified Information Systems Security Professional (CISSP) from ISC2	The Official (ISC) <sup>2</sup> CISSP CBK Training Seminar is the most comprehensive review of information security concepts and industry best practices, and covers the eight domains of the CISSP CBK (Common Body of Knowledge). Students will gain knowledge in information security that will increase their ability to successfully implement and manage security programs in any organization or government entity. The goal of this content is to provide students with the core knowledge necessary to be a successful security professional. This training course will help candidates review and refresh their information security knowledge in pursuit of the CISSP exam.  This program includes: - Official (ISC) <sup>2</sup> CISSP Training Seminar student handbook - Official (ISC) <sup>2</sup> CISSP Flash Cards - 120 days of access to the recordings and course content (from time of purchase) - 33.5 hours of video content	Security Consultant, Security Manager, IT Director/Manager, Security Auditor, Security Architect, Security Analyst, Security Systems Engineer, Chief Information Security Officer, Director of Security, Network Architect	None, there are no experience and/or skill requirements for participating in the course.  To hold the CISSP credential, candidates must pass the CISSP exam, have a minimum of five years cumulative paid full-time work experience in two or more of the eight domains of the (ISC) <sup>2</sup> CISSP CBK®	Certification domains are covered in the course, additional exam prep suggested. Certificates of completion will be provided to successful completors of the course. No exam voucher is provided.  To hold the CISSP credential, candidates must pass the CISSP exam, have a minimum of five years cumulative paid full-time work experience in two or more of the eight domains of the (ISC) <sup>2</sup> CISSP CBK®. Candidates may receive a one year experience waiver with a four-year college degree, or regional equivalent or additional credential from the (ISC) <sup>2</sup> approved list, thus requiring four years of direct full-time professional security work experience in two or more of the eight domains of the CISSP CBK. Those that pass the CISSP exam but don't have the required experience to earn the CISSP credential may become an Associate of (ISC) <sup>2</sup> by successfully passing the CISSP exam. Associates of (ISC) <sup>2</sup> have six years to earn the experience to become a CISSP credential holder. To learn about the CISSP, visit <a href="https://www.isc2.org/cissp/default.aspx">https://www.isc2.org/cissp/default.aspx</a>
Network Security	Palo Alto Networks Firewall 8.0 Essentials: Configuration and management e-learning (EDU-110)	The ever-evolving threat landscape requires organizations to have complete visibility into and precise control over network traffic and protection from unknown threats. Palo Alto Networks self-paced e-Learning course The Firewall Essentials 8.0: Configuration and Management (EDU-110) prepares candidates for job roles requiring next-generation firewall core features and functions as well as configuration expertise and general network security knowledge.	Security Engineers, Security Administrators, Security Operations specialists, security analysts, network engineers and support staff	Basic familiarity with networking concepts including routing, switching, IP addressing and basic security concepts	Certification alignment: Palo Alto Networks Accredited Configuration Engineer (ACE) <a href="https://www.paloaltonetworks.com/services/education/ace">https://www.paloaltonetworks.com/services/education/ace</a>
Network Security	Fortinet Network Security Expert (NSE) Level 1	Develop a foundational understanding of the ever-increasing threat landscape and of general network security concepts.	Threat landscape and network security · Data center firewall · Next generation firewall · Unified threat management · Application security · Management and analytics · Wireless concepts · Introduction to cloud security	None, there are no experience and/or skill requirements.	Fortinet Network Security Institute  <a href="https://training.fortinet.com/">https://training.fortinet.com/</a>